

Jim McMellon, PE



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

MEMO TO: Roadway Design Project Engineers

FROM: Jay A. Bennett, PE
State Roadway Design Engineer

DATE: November 29, 2006

SUBJECT: Additional Guiderail Posts

The purpose of this memo is to advise you of a new Project Special Provision, which addresses a new pay item for Additional Guiderail Posts. This Project Special Provision should be used in conjunction with Roadway Standard Drawing 865.01, sheet 1 of 12. A copy of the new Project Special Provision is attached.

The subject pay item should be computed for projects where Roadway Standard Drawing 865.01, sheet 1 of 12, is applicable. At a minimum, the quantity of additional guiderail posts should be computed by multiplying the number of median hazard locations by three (the minimum number of guiderail posts required to close at least one of the gaps between the impact attenuator and the cable guiderail anchor unit). An example Cable Guiderail Summary sheet is attached.

Please begin use of this new pay item effective immediately. Also, the quantity of additional guiderail posts should be included in the Cable Guiderail Summary in the final plans. If you have any questions regarding this letter, please contact Ron Allen, PE, or me.

JAB/rdt

Attachment

cc: Art McMillan, PE
Ron Allen, PE
Dewayne Sykes, PE
Jim McMellon, PE
Rodger Rochelle, PE
Steve Varnedoe, PE
Jon Nance, PE

Ellis Powell, PE
Scott Blevins, PE
Cynthia Perry, PE
Kevin Lacy, PE, CPM
Victor Barbour, PE
Division Engineers

CABLE GUIDERAIL:

(12-19-06)

SP8R69

Revise the *2006 Standard Specifications* as follows:

Page 8-51, Article 865-1 Description, add the following as the second sentence of the first paragraph:

Install additional double faced cable guiderail posts without cable at median hazards as shown in Roadway Standard Drawing No. 865.01 (Sheet 1 of 12)

Page 8-52, Article 865-2 Materials, add the following as the last paragraph:

Additional guiderail posts shall be double faced guiderail intermediate posts.

Page 8-53, Article 865-4 Measurement and Payment, add the following as the fourth paragraph:

Additional Guiderail Posts will be measured and paid for in units of each that have been completed and accepted.

Add the following pay item:

Pay Item

Additional Guiderail Posts

Pay Unit

Each

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS



DOUBLE FACED CABLE GUIDERAIL SUMMARY

| LINE | STATION TO STATION | LOCATION | LENGTH (m) | TERMINAL ANCHORS (EA) | INTERMEDIATE ANCHORS (EA) | REMARKS |
|------------------------------------|-----------------------------|----------|---------------|-----------------------------|---------------------------------|---------|
| -L- | 67+50.000 TO 81+86.899 | LT. | 1,436.899 | 2 | 4 | |
| -L- | 82+44.781 TO 93+78.586 | LT. | 1,133.805 | 2 | 2 | |
| -L- | 94+35.022 TO 108+48.760 | LT. | 1,413.738 | 2 | 4 | |
| -L- | 108+88.255 TO 111+80.472 | LT. | 292.217 | 2 | | |
| -L- | 112+00.018 TO 138+22.109 | LT. | 2,622.091 | 2 | 8 | |
| -L- | 138+72.624 TO 162+20.000 LB | LT. | | | | |
| -L- | 16+220.00 LA TO 16+858.184 | LT. | 2,985.56 | 2 | 8 | |
| -LREV- | 16+915.197 TO 17+582.940 LB | LT. | | | | |
| -L- | 17+582.940 LA TO 18+621.584 | LT. | 2,338.878 | 2 | 6 | |
| -L- | 18+633.399 TO 19+265.890 | LT. | | | | |
| -L- | 19+454.491 TO 20+795.334 | | 1,340.843 | 2 | 4 | |
| | 20+858.941 TO 21+562.977 | | 704.036 | 2 | 2 | |
| SUBTOTALS | | | 14,268.067 | | | |
| ANCHOR DEDUCTIONS : (18 @ 7.50m) | | | -135.000 | | | |
| PROJECT TOTALS | | | 14,133.067 | 18 | 38 | |
| SAY | | | 14,150.000 | | | |
| ADDITIONAL GUIDERAIL POSTS 50 EACH | | | | | | |

Show estimated amount of additional posts at bottom of summary. Include calculation of quantity sheet to show how estimate was derived.